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1 [Tools and approaches for developing data-intensive Web applications: a su](#)

Piero Fraternali

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

**Publisher:** ACM Press

Full text available: [pdf\(524.80 KB\)](#) Additional Information: [full citation](#), [abs](#)  
[citations](#), [index ter](#)

The exponential growth and capillar diffusion of the Web are nurturing a applications, characterized by a direct business-to-customer relationship. such applications is a hybrid between traditional IS development and Hy and challenges the existing tools and approaches for software production investigates the current situation of Web development tools, both in the c research fields, by identifying and characte ...


**Keywords:** HTML, Intranet, WWW, application, development

2 [Declarative specification of Web sites with S](#)

Mary Fernández, Daniela Florescu, Alon Levy, Dan Suciu

March 2000 **The VLDB Journal — The International Journal on Very**  
 Volume 9 Issue 1


**Publisher:** Springer-Verlag New York, Inc.

Full text available:  pdf(188.65 KB) Additional Information: [full citation](#), [abs terms](#)


S is a system for implementing *data-intensive* Web sites, which typically from multiple data sources and have complex structure. S's key idea is se management of a Web site's data, the specification of its content and stru representation of its pages. S provides a declarative *query language* for s content and structure, and a simple *template language* for specifying a si representation. This paper ...

**Keywords:** Declarative query languages, Web-site management

### 3 Enabling dynamic content caching for database-driven web sites

 K. Selçuk Candan, Wen-Syan Li, Qiong Luo, Wang-Pin Hsiung, Divyakan May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIG conference on Management of data SIGMOD '01**, Volume 3

**Publisher:** ACM Press

Full text available:  pdf(319.67 KB) Additional Information: [full citation](#), [abs citings](#), [index ter](#)

Web performance is a key differentiation among content providers. Snaf major web sites demonstrate the difficulty that companies face trying to of web traffic. One solution to this problem is to store web content at ser caches for fast delivery to the end users. However, for many e-commerce created dynamically based on the current state of business processes, rep servers and *databases*


**Keywords:** JDBC, application server, database driven web site, dynamic invalidation, web acceleration

### 4 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for A Collaborative research**

**Publisher:** IBM Press


Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abs index terms](#)

Understanding distributed applications is a tedious and difficult task. Vis process-time diagrams are often used to obtain a better understanding of application. The visualization tool we use is Poet, an event tracer developed of Waterloo. However, these diagrams are often very complex and do not the desired overview of the application. In our experience, such tools display occurrences of non-trivial communication ...

##### 5 A dynamic view-oriented group communication service

- ◆ Roberto De Prisco, Alan Fekete, Nancy Lynch, Alex Shvartsman  
June 1998 **Proceedings of the seventeenth annual ACM symposium on distributed computing**


**Publisher:** ACM Press

Full text available:  pdf(3.91 MB) Additional Information: [full citation](#), [references](#)

##### 6 Declarative specification of data-intensive Web sites

- ◆ Mary Fernández, Dan Suciu, Igor Tatarinov  
December 1999 **ACM SIGPLAN Notices , Proceedings of the 2nd conference specific languages PLAN '99**, Volume 35 Issue 1

**Publisher:** ACM Press


Full text available:  pdf(1.06 MB) Additional Information: [full citation](#), [abstracts](#), [citations](#), [index terms](#)

Integrated information systems are often realized as data-intensive Web sites that integrate data from multiple data sources. We present a system, called STRUDEL, for generating data-intensive Web sites. STRUDEL separates the tasks of accessing, integrating a site's data sources, building its structure, and generating its HTML. STRUDEL's declarative query language, called StruQL, supports the first-order logic database queries ...

##### 7 Programming languages for mobile code

- ◆ Tommy Thorn  
September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3

**Publisher:** ACM Press

Full text available:  pdf(393.65 KB) Additional Information: [full citation](#), [abstracts](#), [citations](#), [index terms](#)

Sun's announcement of the programming language Java more than any other notion of mobile code, that is, programs traveling on a heterogeneous network and automatically executing upon arrival at the destination. We describe several mobile code and extract their common characteristics, where security proves to be a major concern. With these characteristics as reference points, we examine six languages proposed for mobile code. The conclusion ...


**Keywords:** Java, Limbo, Objective Caml, Obliq, Safe-Tcl, distribution, mobile code, network programming, object orientation, portability, safety

## 8 Model-driven development of Web applications: the AutoWeb system

◆ Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Vol 18

**Publisher:** ACM Press

Full text available:  [pdf\(6.94 MB\)](#) Additional Information: [full citation](#), [abstracts](#), [citations](#), [index terms](#)


This paper describes a methodology for the development of WWW application environments specifically tailored for the methodology. The methodology and the environment are based upon models and techniques already used in the fields of information systems, and software engineering fields, adapted and blended. The foundation of the proposal is the conceptual design of WWW applications, a notation for the specification of structure, navigation, and security.

**Keywords:** HTML, WWW, application, development, intranet, modeling

## 9 Process migration

◆ September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [abstracts](#), [citations](#), [index terms](#)

Process migration is the act of transferring a process between two machines. It is used for dynamic load distribution, fault resilience, eased system administration, and portability. Despite these goals and ongoing research efforts, migration has not seen widespread use. With the increasing deployment of distributed systems and distributed operating systems in particular, process migration is again receiving

in both research and product development. As hi ...


**Keywords:** distributed operating systems, distributed systems, load distribution, migration

**10** WebViews: accessing personalized web content and services

◆ Juliana Freire, Bharat Kumar, Daniel Lieuwen

April 2001 **Proceedings of the 10th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available:  [pdf\(305.83 KB\)](#) Additional Information: [full citation](#), [references](#)


**Keywords:** Web clipping, content transcoding, dynamic content, electronic information delivery, personalization, smart bookmarks, voice interfaces

**11** Web Servers and Dynamic Content

Dan Teodor

February 2001 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

Full text available:  [html\(19.98 KB\)](#) Additional Information: [full citation](#), [abstracts](#)



Using legacy languages like C and Fortran can aid computationally complex tasks

**12** Evaluating the reverse engineering capabilities of Web tools for understanding web site structure: a case study

Scott Tilley, Shihong Huang

July 2001 **Proceedings of the 23rd International Conference on Software Engineering**

**Publisher:** IEEE Computer Society

Full text available:  [pdf\(360.47 KB\)](#)  [Publisher Site](#) Additional Information: [full citation](#), [abstracts](#), [citations](#), [index terms](#)


*This paper describes an evaluation of the reverse engineering capabilities of Web tools for understanding site content and structure. The evaluation is based on*

*into three classes (static, interactive, and dynamic), and is structured using an engineering environment framework (REEF). This case study also represents an evaluation of the applicability of the REEF in the related but qualitatively different Web sites. The case study ...*

**13 Catching the boat with Strudel: experiences with a Web-site management system**

◆ Mary Fernández, Daniela Florescu, Jaewoo Kang, Alon Levy, Dan Suciu  
June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD conference on Management of data SIGMOD '98, Volume 2**

**Publisher:** ACM Press


Full text available:  [pdf\(1.81 MB\)](#) Additional Information: [full citation](#), [abstracts](#), [citations](#), [index terms](#)

The Strudel system applies concepts from database management systems to building Web sites. Strudel's key idea is separating the management of the creation and management of the site's structure, and the visual presentation. First, the site builder creates a uniform model of all data available at the site. Then, the builder uses this model to declaratively define the Web site's structure by a "definition query" ...

**14 InfoSleuth: agent-based semantic integration of information in open and dynamic environments**

◆ R. J. Bayardo, W. Bohrer, R. Brice, A. Cichocki, J. Fowler, A. Helal, V. K. Martin, M. Nodine, M. Rashid, M. Rusinkiewicz, R. Shea, C. Unnikrishnan  
June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD conference on Management of data SIGMOD '97, Volume 2**

**Publisher:** ACM Press


Full text available:  [pdf\(1.69 MB\)](#) Additional Information: [full citation](#), [abstracts](#), [citations](#), [index terms](#)


The goal of the InfoSleuth project at MCC is to exploit and synthesize new information sources. InfoSleuth has its roots in the Carnot project at MCC in integrating heterogeneous information bases. However, recent emergence of internet networking and the World Wide Web have significantly expanded the availability, and volume of data available to a ...

**15 Activeweb: XML-based active rules for web view derivations and access control**  
Hidenari Kiyomitsu, Atsunori Takeuchi, Katsumi Tanaka

January 2001 **Australian Computer Science Communications , Proceed  
on Information technology for virtual enterprises ITVE '**  
**the workshop on Information technology for virtual ente**  
Volume 23 Issue 6

**Publisher:** IEEE Computer Society , IEEE Computer Society , IEEE Com

Full text available:  [pdf\(905.05](#)


KB) 

Additional Information: [full citation](#), [abs](#)  
[Publisher Site](#)

In this paper, we propose an idea of using XML-based active rules for de  
for defining access control by user access behaviors. The major objective  
method is to reflect author(creator)'s intention about his/her Web data an  
our *ActiveWeb*, the view of a Web page including its hyperlinks is chang  
user's browsing situation including access history or the aggregated infor  
access histories.In ...


**Keywords:** ECA rules, XML, activeweb, internet application, spatio-ten  
personalization, web views

## 16 Geospatial mapping and navigation of the web

 Kevin S. McCurley

April 2001 **Proceedings of the 10th international conference on World '**


**Publisher:** ACM Press

Full text available:  [pdf\(1.06](#)  
MB)

Additional Information: [full citation](#), [refe](#)  
[terms](#)

**Keywords:** browsers, geographic information systems, geospatial inform  
navigation

## 17 Engineering flexible World Wide Web services

 Markus W. Schranz

February 1998 **Proceedings of the 1998 ACM symposium on Applied Co**

**Publisher:** ACM Press

Full text available:  [pdf\(709.22](#)

Additional Information: [full citation](#), [refe](#)

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terms


**Keywords:** WWW service engineering, Web service management, flexil

**18 Alternatives for Dynamic Web Development Projects**

Dennis Gesker

March 2001 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

Full text available:  html(20.43 KB) Additional Information: full citation, abs index terms


Dennis provides a starting point for developers seeking solutions for their development requirements.

**19 A scalable and highly available system for serving dynamic data at frequent**

Jim Challenger, Paul Dantzig, Arun Iyengar


November 1998 **Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM)**

**Publisher:** IEEE Computer Society

Full text available:  pdf(195.17 KB) Additional Information: full citation, abs citings

This paper describes the system and key techniques used for achieving peak availability at the official Web site for the 1998 Olympic Winter Games. The most popular Web sites for the duration of the Olympic Games. The Web site was SP2 systems scattered around the globe containing a total of 143 processes. The Web site was that the data being presented to clients was constantly changing as new results were entered into the system ...

**20 Enabling full service surrogates using the portable channel representation**

 Micah Beck, Terry Moore, Leif Abrahamsson, Christophe Achouiantz, Pat  
April 2001 **Proceedings of the 10th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available:  pdf(282.92 KB) Additional Information: full citation, reference

**Keywords:** content distribution, dynamic content, mirroring, portability, web server

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